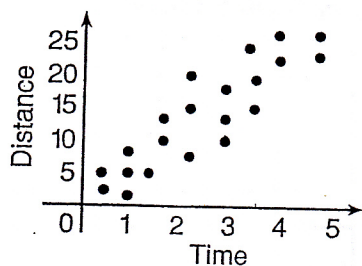


Study Guide Worksheet 4-8

Scatter Plots - On a scatter plot, the data points aren't connected. When you graph two sets of data as ordered pairs, you make a scatter plot.

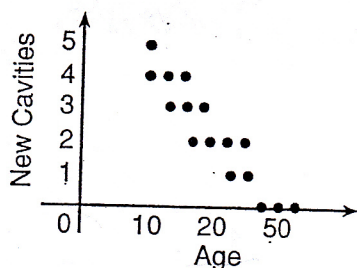
The pattern of the dots determines the relationship between the two sets of data.

Positive Relationship



The pattern of dots slants upward to the right.

Negative Relationship



The pattern of dots slants downward to the right.

No Relationship



The dots are spread out. There is no pattern.

Determine whether a scatter plot of the data would show a positive relationship, a negative relationship, or no relationship.

- eye color and age
no relationship
- miles driven and gallons of gas used
positive
- driving speed and driving time
negative
- laps swum and swimming time
positive

The scatter plot shows the amount of time boys (B) and girls (G) spent studying and their grades on a history test. Use the scatter plot to answer the questions.

- Describe the relationship shown by the scatter plot.
positive
- Is the relationship the same for boys and for girls?
yes
- What other factors might affect the grades on the history test?

